

1-10 Solve each equation. Round your answers to three decimal places if necessary.

1. $36\left(\frac{1}{3}\right)^{x/5} = 4$

6. $e^{2x} = 18$

2. $2 \cdot 5^{x/4} = 250$

7. $\frac{1}{25} = 125^{4x-2}$

3. $1.05^x = 3$

8. $32^{-x} = 8^{2x+3}$

4. $3^{x-3} = 5$

9. $49^{x^2-3} = \frac{1}{7}$

5. $\frac{50}{4+e^{2x}} = 11$

10. $4^{2x} - 2 \cdot 4^x - 8 = 0$

*11-15 Follow the directions for each of these review problems. Do them without looking at your notes!

11. Find the amount accumulated after investing \$4800 for 17 years at an interest rate of 6.2% compounded quarterly.

12. Rewrite this pair of numbers as an exponent with the other number's base. 128 and $\frac{1}{32}$

$$\frac{1}{32} \boxed{} \quad 128 \boxed{}$$

13. Simplify. $\log_{16} 2^{12}$

14. Graph. $f(x) = \frac{1}{3}^{-2x+6} - 2$

Parent function _____

x	y

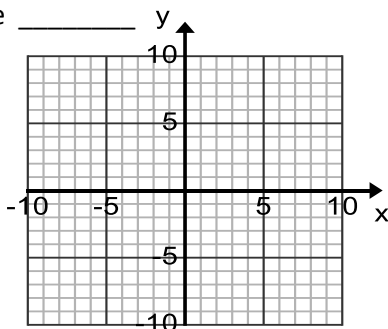
Description of
transformation

x	y

y-int _____ asymptote _____

Domain _____

Range _____



15. Graph. $f(x) = 2e^{x+4} - 1$

Parent function _____

x	y

Description of
transformation

x	y

y-int _____ asymptote _____

Domain _____

Range _____

